

CLAIMS

What is claimed is:

1. A control method of a computer system including a main body and a monitor displaying a video signal from the main body, the control method of the computer system comprising:
 - storing a display information of the video signal displayed on the monitor, wherein the display information is based on EDID supplied from the monitor in the main body;
 - determining whether the display information of the input video signal transmitted from the main body to the monitor is suitable for the EDID of the monitor;
 - displaying the input video signal if determined that the display information of the input video signal is suitable for the EDID and supplying an error signal to the main body if determined that the display information of the input video signal is not suitable for the EDID; and
 - processing the input video signal according to the display information stored in the main body and supplying the processed video signal to the monitor if the error signal is supplied to the computer main body.
2. The control method of the computer system according to claim 1, wherein a part of the error signal is the same as EDID data.
3. The control method of the computer system according to claim 2, further comprising supplying the EDID to the main body if determined that the display information of the input video signal is suitable for the EDID.
4. A control method of a computer system including a computer main body and a monitor displaying a video signal from the computer main body, the control method of the computer system comprising:
 - determining whether a display information of the input video signal transmitted from the computer main body to the monitor is suitable for EDID of the monitor;
 - displaying the input video signal on the monitor if the display information of the video signal is suitable for the EDID and supplying an error signal to the computer main body if the display information of the input video signal is not suitable for the EDID;

calculating a display information set-up value lower than the display information if the error signal is supplied to the computer main body; and

processing the input video signal according to the set-up value and supplying the processed video signal to the monitor.

5. The control method of the computer system according to claim 4, wherein a part of the error signal is the same as the EDID data.

6. The control method of the computer system according to claim 5, further comprising supplying the EDID to the computer main body, if the input video signal is suitable for the EDID.

7. A computer system including a computer main body and a monitor displaying a video signal from the computer main body, the computer system comprising:

an EDID storing part provided in the monitor to store EDID of the monitor;

a display information storing part provided in the computer main body to store a display information of the video signal displayed on the monitor, the display information being based on the EDID;

a display control part determining whether the display information of the input video signal transmitted from the computer main body to the monitor is suitable for the EDID of the monitor, displaying the input video signal if the display information of the input video signal is suitable for EDID and supplying an error signal to the computer main body if the display information of the input signal is not suitable for the EDID; and

a video control part storing the display information of the video signal displayed on the monitor in the display information storing part, wherein the display information is based on the EDID and processing the input video signal according to the display information stored in the display information storing part and to supply the processed video signal to the monitor if the error signal is supplied from the display control part.

8. The computer system according to claim 7, wherein a part of the error signal is the same as a part of the EDID.

9. The computer system according to claim 8, wherein the display control part supplies the EDID to the computer main body, if the input video signal is suitable for the EDID.

10. The computer system according to claim 8, wherein the EDID storing part is updated with an error EDID when the transmitted display information of the input video signal is not suitable for the EDID.

11. A computer system comprising a computer main body and a monitor displaying a video signal from the computer main body, the computer system comprising:

an EDID storing part provided in the monitor to store EDID of the monitor;

a display control part determining whether a display information of the input video signal transmitted from the computer main body to the monitor is suitable for the EDID of the monitor, displaying the input video signal if the display information of the input video signal is suitable for the EDID, and supplying an error signal to the computer main body, if the display information of the input video signal is not suitable for the EDID; and

a video control part calculating a display set-up value lower than the display information transmitted, if the error signal is supplied from the display control part, processing the input video signal according to the set-up value and supplying the processed video signal to the monitor.

12. The computer system according to claim 11, wherein a part of the error signal is the same as a part of the EDID data.

13. The computer system according to claim 12, wherein the display control part supplies the EDID to the computer main body, if the input video signal is suitable for the EDID.

14. The computer system according to claim 12, wherein the error signal updates the EDID in the EDID storing part to result in an error EDID when the transmitted display information of the input video signal is not suitable for the EDID.

15. A method of controlling the display settings of a monitor of a computer system, comprising:

storing a current display setting of the monitor;

receiving a display setting request to change the current display setting of the monitor to a new display setting; and

determining if the new display setting is compatible with the normal Extended Display Identification Data (EDID) of the monitor, wherein:

if the new display setting is compatible with the normal EDID, then adjusting the monitor to display video signals at the new display setting, and

if the new display setting is not compatible with the normal EDID, then displaying an error message on the monitor and sending an error signal to the computer system from the monitor and resetting the display setting to the stored current display setting.

16. The method of claim 15, further comprising:

updating the current display setting to the new display setting if the new display setting is compatible with the normal EDID.

17. The method of claim 15, further comprising:

generating a changed EDID corresponding to a portion of the normal EDID and a portion of the error signal, wherein the computer system is provided with the changed EDID when receiving the display setting request after the error signal occurs.

18. The method of claim 15, further comprising:

calculating a revised display information when the new display setting is not compatible with the normal EDID; and

storing the revised display information, wherein the current display setting is updated.